and creation of a nodal cell to co-ordinate and review the progress of energy conservation activities.

(c) The suggestions given to the Ministries, relate to laying down targets for energy consumption, conducting energy audits, organising training programmes and seminars, publishing case studies on successfully implemented energy conservation measures and preparing specific action plans for energy conservation in the public sector units under their control.

Oil Drilling Work in Vietnam by ONGC

4496. SHRI JAGADISH JANI: Will the Minister of PETROLEUM AND NATURAL GAS be please to state:

(a) whether Government have intensified their overseas oil drilling programme;

(b) if so, what steps are being taken by ONGC in that direction;

(c) whether it is a fact that ONGC proposes to undertake oil drilling work in Vietnam; and

(d) if so, what are the details in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI BRAHM DUTT) : (a) to (d) Proposals for overseas exploration are examined by the Government and ONGC after taking into account all relevant factors includng the prospectivity of the areas available for exploration and availability of resources.

Hydrocarbons India Limited (HIL), a wholly owned subsidiary of Oil and Natural Gas Commission would undertake drilling in Vietnam as a part of its operations under the production sharing contract with Petrovietnam.

According to the contract, the entire exploration risk will be taken by HIL. If commercial quantities of petroleum are not discovered, HIL will have the right to terminate the contract. The exploration is to be carried out in an offshore area covering approximately 14,200 sq. kms.

If commercial quantites of oil are discovered, it would be shared between HIL & Petrovietnam according to a sliding scale based on volumes of production. HIL would also be entitled to recover its costs. The entire production and development of the discovery would be carried out by HIL. The duration of the contract is 25 years.

It is expected that during the first phase of four years an investment of the order of US $ 21.5 million would be required.

Gap between the Demand and Supply of Electricity

4497. SHRI SUBAS MOHANTY: Will the Minister of ENERGY be pleased to state:

(a) what is the gap between the demand and supply of electricity in the country as on the 30th June, 1988, regionwise; and

(b) the total generation of electricity during the last three years, yearwise and regionwise?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER IN THE MINISTRY OF ENERGY (SHRI KALPNATH RAI): (a) The requisite information is as under:-

(Period April-June, 1988)
(Figures in MUs net)

Region	Requirement	Availability	Shortage	(%)
Northern	16686	15558	1128	(6.8)
Western	16315	15832	483	(3.0)
Southern	14015	11483	2532	(18.1)
Eastern	6870	6134	736	(10.7)
North-Eastern	545	511	34	(6.2)
All India	54431	49518	4913	(9.0)

(b). The required information is as under:—

ENERGY GENERATION (Fig. in MU)

	1985-86	1986-87	1987-88
Northern Region	46149	52842	59517
Western Region	57389	63128	68945
Southern Region	43486	47091	47634
Eastern Region	21175	22630	23646
North-Eastern Region	1838	1914	2152
All India	170037	187605	201894

सौर ऊर्जा का उत्पादन

4498. **श्री मीर्जा इर्शादबेग** : क्या ऊर्जा मंत्री यह बताने की कृपा करेंगे कि इस समय कौन-कौन से राज्यों में कितनी-कितनी मात्रा में सौर ऊर्जा का उत्पादन किया जा रहा है?

ऊर्जा मंत्री (श्री वसंत साठे) : विभिन्न प्रकार की ऊर्जा की आवश्यकताओं को पूरा करने के लिए देश के सभी राज्यों में सौर ऊर्जा प्रत्यक्ष और अप्रत्यक्ष रूपों में प्रचुर मात्रा में उपलब्ध है। रोशनी, पम्पन, सामुदायिक टेलीविजन आदि जैसे अनुप्रयोगों के लिए स्थापित की गई सौर प्रकाश वोल्टीय प्रणालियों से लगभग 1.5 मिलियन किलोवाट घंटा विद्युत्त ऊर्जा का उत्पादन किए जाने का अनुमान है। जल तापन, शुष्कन, खाना पकाने, आसवन जसे अनुप्रयोगों के लिए सौर तापीय प्रणालियों से प्रतिवर्ष 242 मिलियन किलोवाट घंटा तापीय ऊर्जा का उत्पादन या बजट किए जाने का अनुमान है। इसके अतिरिक्त, 6 मेगावाट की स्थापित क्षमता सहित पवन फार्म परियोजनायें से 1987-88 में 4.8 मिलियन विद्युत्त यूनिटों का उत्पादन किया गया। इसके अतिरिक्त, बायोगैस तथा बायोमास कार्यक्रम प्रतिवर्ष 4801 मिलियन किलोवाट घंटा ऊर्जा का उत्पादन अथवा बचत